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SOD2 Knockdown 293T Cell Lysate, Heterozygous

Catalog No.: RM02267

Basic Information

Catalog No.
RM02267

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockdown

Gene Information

Gene Symbol
SOD2

Species
Human

Gene ID
6648

Swiss Prot
P04179

Synonyms
IPO-B; IPOB; MNSOD; MVCD6; Mn-SOD

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Background

This gene is a member of the iron/manganese superoxide dismutase family. It encodes a mitochondrial protein that forms a homotetramer and binds one manganese ion per subunit. This protein binds to the superoxide byproducts of oxidative phosphorylation and converts them to hydrogen peroxide and diatomic oxygen. Mutations in this gene have been associated with idiopathic cardiomyopathy (IDC), premature aging, sporadic motor neuron disease, and cancer. Alternative splicing of this gene results in multiple transcript variants. A related pseudogene has been identified on chromosome 1. [provided by RefSeq, Apr 2016]

Product Information

Description
SOD2 Knockdown 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:98bp deletion in exon2
Allele-2:97bp deletion in exon2
Mammalian cells such as human, rat and mouse cells are normally diploid with two alleles. Homozygote: both alleles were knocked out, mRNA has no signal, no expression of proteins. Heterozygote: only one allele was knocked out, the mRNA transcript levels was decreased compared to wild type, and the protein expression levels was also lower than that of the wild type.

Packaging
1 vial parental cell Lysate and 1 vial knockout cell Lysate

Shipping Conditions
4℃

Amount
50μL, 2μg/μL.

Storage
Lysate is stable for 12 months when stored at -20℃. Minimizing freeze-thaw cycles.

Protocol
To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

Sequencing data

WT CTCCCCGACCTGCC**********GAGGAGAAGTACC
Mut CTCCCCGACCTGCC***Deletion***GAGGAGAAGTACC
Allele-1: 100bp deletion in exon2

WT TCCCCGACCTGCCC**********CGAGGAGAAGTACC
Mut TCCCCGACCTGCCC***Deletion***CGAGGAGAAGTACC
Allele-2: 98bp deletion in exon2

WT CTCCCCGACCTGCC**********ACCGAGGAGAAGT
Mut CTCCCCGACCTGCC***Deletion***ACCGAGGAGAAGT
Allele-3: 97bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and SOD2 Knockdown (KD) 293T cells, using sanger sequencing.